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Propositons

accompanying the dissertation

Exploring magnetism in graphene by electronic charge and spin transport

by

Magdalena Wojtaszek

1. As magnetism originates from interactions with and between electron spins, probing electron charge and spin properties at once in electron spin transport measurements is a very elegant way to identify it. *This thesis.*
2. Establishing an agreement on a procedure for extracting spin properties in a particular material is essential for correlating the efforts of different researchers to understand spin-dephasing mechanisms. *Chapter 1 and 3.*
3. The choice of fitting parameters to describe the internal magnetic fields in the Hanle function has to be very thorough, as similar features can be attributed to different dephasing mechanisms. *Chapter 1.*
4. Even elementary system like graphene, when produced using different methods, displays diverse properties. It is hence not surprising that various hydrogenation techniques can also lead to diverse hydrogen textures and uptakes. *Chapter 4 and 5.*
5. The scarce formulation of fabrication recipes in many experimental papers gives the impression that the authors try to keep some details secret. Often, however, it is more likely that they are not aware of the subtleties involved. *Chapter 2.*
6. Fast advances in research on graphene were only possible thanks to decades of research on graphite, carbon nanotubes, and GaAs/AlGaAs preceding it.
7. The editors of scientific journals require to avoid the words like 'state-of-the-art', 'novel' or 'breakthrough' in the submitted papers. This policy is inconsistent; the practice shows that the success of paper being accepted largely increases with the use of words like 'giant', 'colossal' or 'genuine'.
8. In the time of google search a proper titling of a paper is especially important in order to be acknowledged and cited.
9. The ability to be critical was always a prerequisite to be a good scientist. Nowadays also non-scientific skills gain importance like being flexible and vigilant for opportunities.
10. Subconsciously, we choose to listen to music which harmonizes with our character. Such preferences can even portray the mentality of a nation as a whole. Hence, when talking about classical music, Germans love well structured Baroque, Slavs, melancholy of Romanticism, and Americans, cosmopolitan style of Modernism.
11. Four Polish people won the Nobel prize in literature and one person, in Physics. The opposite holds for The Netherlands; five times Dutch people won the Nobel prize in Physics but never in literature. This fact alone can explain why there can be some communication troubles between these nations.